## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/582,002
Source:	TFWP.
Date Processed by STIC:	06/19/2006
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## ENTERED



**IFWP** 

RAW SEQUENCE LISTING DATE: 06/19/2006
PATENT APPLICATION: US/10/582,002 TIME: 11:36:29

Input Set : A:\Q95278 Sequence Listing.txt
Output Set: N:\CRF4\06192006\J582002.raw

3 <110> APPLICANT: MEIJI SEIKA KAISHA, LTD. WATANABE, Manabu YANAI, Koji TSUYUKI, Yumiko 8 <120> TITLE OF INVENTION: Surfactant tolerant cellulase and method for modification thereto 10 <130> FILE REFERENCE: 095278 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/582,002 C--> 12 <141> CURRENT FILING DATE: 2006-06-07 12 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/018184 13 <151> PRIOR FILING DATE: 2004-12-07 15 <150> PRIOR APPLICATION NUMBER: JP 2003-409692 16 <151> PRIOR FILING DATE: 2003-12-08 18 <160> NUMBER OF SEQ ID NOS: 48 20 <170> SOFTWARE: PatentIn version 3.1 22 <210> SEQ ID NO: 1 23 <211> LENGTH: 870 24 <212> TYPE: DNA 25 <213> ORGANISM: Humicola insolens MN200-1 27 <220> FEATURE: 28 <221> NAME/KEY: CDS 29 <222> LOCATION: (1)..(870) 31 <220> FEATURE: 32 <221> NAME/KEY: misc\_feature 33 <222> LOCATION: (1)..(3) 34 <223> OTHER INFORMATION: Pyroglutamic acid 37 <220> FEATURE: 38 <221> NAME/KEY: source 39 <222> LOCATION: (16)..(870) 40 <223> OTHER INFORMATION: Humicola insolens MN200-1 43 <400> SEQUENCE: 1 44 cag aac tgt gga tcc gct gat ggc aag tcc acc cgc tac tgg gac tgc 48 45 Gln Asn Cys Gly Ser Ala Asp Gly Lys Ser Thr Arg Tyr Trp Asp Cys 46 1 15 48 tgc aag cet teg tge gge tgg gee aag aag get eee gtg aac eag eet 96 49 Cys Lys Pro Ser Cys Gly Trp Ala Lys Lys Ala Pro Val Asn Gln Pro 52 gtc ttc tcc tgc aac gcc aac ttc cag cgt ctc act gac ttc gac gcc 144 53 Val Phe Ser Cys Asn Ala Asn Phe Gln Arg Leu Thr Asp Phe Asp Ala 56 aag tee gge tge gag eeg gge ggt gte gee tae teg tge gee gae eag 192 57 Lys Ser Gly Cys Glu Pro Gly Gly Val Ala Tyr Ser Cys Ala Asp Gln 58 50 60 acc cca tgg gct gtg aac gac ttc gcg ttc ggt ttt gct qcc acc 240 RAW SEQUENCE LISTING DATE: 06/19/2006
PATENT APPLICATION: US/10/582,002 TIME: 11:36:29

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74	_ 4		115					120					125				
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	ше		GIY	GIY	GIA	vai		тте	Pne	Asp	GIY	_	Thr	Pro	GIn	Phe	
78	~~~	130	 ساخت				135	<b>.</b>				140					
01	gge	ggt	Lou	Dro	ggc	cag	cgc	Tac	ggc	ggc	atc	tcg	CCC	cgc	aac	gag	480
	145	Gry	пеп	PLO	GIY	150	Arg	TAL	GIY	GIY		ser	ser	Arg	ASI		
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85	Cvs	Asn	Δra	Phe	Pro	2ac	Δla	T.011	Luc	Dro	Glv	Cyc	Tur	Trp	Ara	Pho	528
86	Cyb	7150	****9	1110	165	тор	AIG	Deu	шуз	170	Gry	Суз	TYL	пр	175	FIIC	
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94		•	195					200	_		-	1	205			L	
96	gac	ggc	aac	ttc	cct	gcc	gtc	cag	atc	ccc	tcc	agc	agc	acc	agc	tct	672
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98		210					215					220					
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		Ser	Pro	Pro			n Pro	Thr	Thr			Gl;	Cys	Thr		Glu	
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																tgc	816
110		ırr	) Alc	260		. GIŽ	GIZ	ASI			) Ser	GIZ	Cys			Cys	
		act	~~~			. + ~ ~			265		. ~~			270		, tgc	064
112	Wal	. gcc	. 99¢	, agu	The	Cve	The	aay	Tla	aat Nar	. gac	, Tot	m	: Cat	Cag	Cys	864
114		. Alu	275		1111	Сус	, 1111	280		. ASI	. voř	, 177	285		GII	Cys	
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PATENT APPLICATION: US/10/582,002 TIME: 11:36:29

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145 Lys Ser Gly Cys Glu Pro Gly Gly Val Ala Tyr Ser Cys Ala Asp Gln
149 Thr Pro Trp Ala Val Asn Asp Asp Phe Ala Phe Gly Phe Ala Ala Thr
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153 Ser Ile Ala Gly Ser Asn Glu Ala Gly Trp Cys Cys Ala Cys Tyr Glu
157 Leu Thr Phe Thr Ser Gly Pro Val Ala Gly Lys Lys Met Val Val Gln
161 Ser Thr Ser Thr Gly Gly Asp Leu Gly Ser Asn His Phe Asp Leu Asn
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165 Ile Pro Gly Gly Gly Val Gly Ile Phe Asp Gly Cys Thr Pro Gln Phe
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169 Gly Gly Leu Pro Gly Gln Arg Tyr Gly Gly Ile Ser Ser Arg Asn Glu
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173 Cys Asp Arg Phe Pro Asp Ala Leu Lys Pro Gly Cys Tyr Trp Arg Phe
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177 Asp Trp Phe Lys Asn Ala Asp Asn Pro Ser Phe Ser Phe Arg Gln Val
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                                   185
181 Gln Cys Pro Ala Glu Leu Val Ala Arg Thr Gly Cys Arg Arg Asn Asp
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                                                   205
185 Asp Gly Asn Phe Pro Ala Val Gln Ile Pro Ser Ser Ser Thr Ser Ser
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                                               220
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193 Ser Ser Pro Pro Val Gln Pro Thr Thr Pro Ser Gly Cys Thr Ala Glu
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197 Arg Trp Ala Gln Cys Gly Gly Asn Gly Trp Ser Gly Cys Thr Thr Cys
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				NCE:				-p, .	LOCI.	- CII GI		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, O L a.		, , , ,	, _ ,	
					gat	000	224	+ 00	200	000	+ > 0	+ ~~	<b>~</b> ~ ~	+ ~ ~	+ ~ ~	220	48
																	40
234		ser	Ата	Cys	Asp	GIY	цуѕ	ser	TILL	_	Tyr	Trp	Asp	Cys	_	ьys	
			L	L	5					10					15		0.5
					tgg												96
	Pro	ser	Cys		Trp	Pro	GIY	гÀг		ser	vai	Asn	Gin		vai	Pne	
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270		GIY	ASP	Arg	TYL	150	GIY	vai	ser	ser	_	ser	GIII	Cys	Asp		
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2/3	Pne	Pro	AIa	Ата	Leu	ьys	Pro	GLY	Cys		Trp	Arg	Pne	Asp		Pne	
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PATENT APPLICATION: US/10/582,002 TIME: 11:36:29

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338		<b>a</b> 1	<b>7</b>	<b>a</b> 1		70		_		~7	75	_	~-7	_	1	80	
	GIĀ	Gly	ASII	GIU		ser	Trp	Cys	Cys		Cys	Tyr	GIU	Leu		Pne	
342	mla sa	0	<b>a</b> 1	D	85	77.	<b>~1</b>	T	m1	90	TT - 7	** - 7	<b>a1</b>	<u> </u>	95	<b>a</b>	
	THE	Ser	GIY		val	Ата	GIY	гÀг		Met	vaı	vai	GIn		Thr	ser	
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	1111	Gly		Asp	Leu	GIY	THE		HIS	Pne	Asp	ьeu		мет	Pro	GIY	
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	145	Dro	77.	77-	т с	150	Dres	<b>C1</b>	C	m	155	7	Dk -	7	m	160	
	FIIE	Pro	ATG	AId		пур	PLO	сту	cys		rrp	Arg	Fue	ASP		rne	
362	Lara	7 ~~	ה I ת	7 c~	165	Dro	mb	Dha	mb~	170	7 ~~~	C7	₹7 <b>~</b> 7	~1 <i>-</i> -	175	Desc	
			AId	ASD	ASII	PLO	IIII'	File	TIII	Phe	arg	GIII	val	GIN	Cys	PIO	
766	цуs	11011							105						-		
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VERIFICATION SUMMARY DATE: 06/19/2006 PATENT APPLICATION: US/10/582,002 TIME: 11:36:30

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